SUBSITITUTE SPECIFICATION

TITLE OF THE INVENTION

Nectarine Tree 'Mesembrine'

5

CROSS REFERENCE TO RELATED APPLICATIONS

None

PRIORITY CLAIM

This application claims priority of U.S. Provisional patent application Ser. No. 60/404,079 filed August 15, 2002.

STATEMENT REGARDING FEDERALLY SPONSORED RESEARCH OR DEVELOPMENT
None

15

LATIN NAME OF THE GENUS AND SPECIES OF THE PLANT CLAIMED

Prunus persica L. Batsch

VARIETY DENOMINATION

20 'Mesembrine'

BRIEF DESCRIPTION OF THE PHOTOGRAPHS

FIG. 1 shows the tree and blossoms of 'Mesembrine';

FIG. 2 shows the blossoms of 'Mesembrine';

FIG. 3 shows the leaves of 'Mesembrine'; and

FIG. 4 shows the fruit of 'Mesembrine'.

5

10

15

20

BRIEF DESCRIPTION OF THE VARIETY:

The new nectarine tree 'Mesembrine' originated as a seedling resulting from a controlled cross of 'Jalousia' x 'Summergrand' (seed parent, not patented) and 'Fantasia' (pollen parent, not patented). Originally bred and tested by the Institut National de la Recherche Agronomique (INRA) in France, 'Mesembrine' has been asexually propagated by grafting in France and in Parker, Washington, USA, and has been observed to remain true to type over successive asexually propagated generations.

'Mesembrine' was selected for its broad oblate shape and pleasant sub-acid flavor. While similar in many respects to 'S 6816' (plant patent pending), the fruit of 'Mesembrine' matures one to two weeks later. It has also been observed that the leaves of 'Mesembrine' are longer than those of 'S 6816.'

DETAILED BOTANICAL DESCRIPTION OF THE VARIETY:

The following detailed botanical description is based on observations of four year old trees made during the 2004 growing season at Parker, Washington. The test trees were grown on 'Lovell' (unpatented) rootstock. All colors are described according to the Royal Horticultural Society Colour Chart. It should be understood that the characteristics described will vary somewhat depending upon

cultural practices and climatic conditions and can wary with location and season. Quantified measurements are expressed as an average of measurements taken from a number of individual plants of the new variety. The measurements of any individual plant, or any group of plants, of the new variety may vary from the stated average.

5

Tree

Type

Non-spur type

Vigor

Medium

Habit

Upright

10

Size

Width 2.2 m; height 3.9 m

Production

Heavy

Trunk

Size

Diameter 34.1 at base

Bark

Texture varies; color grey 201D on very rough bark;

15

greyed-purple 183A on rough bark; greyed-purple 184A on

smooth bark

Leuticels

Large, prominent, length 0.8 to 1.1 cm; 10 per square inch;

color orange-white 159A

Flowering Branch

20

Size

Length 50.8 cm; diameter 1.6 cm

Texture

Smooth

Length of internodes

Medium, 2.2 to 2.5 cm

Color

Greyed-purple 184A

Anthocyanin coloration

Present

Intensity of anthocyanin coloration Medium

Flowers

10

5 Abundance of flower buds Medium

Distribution of flower buds Generally in groups of two or more

Time of beginning of flowering Bud burst March 18; bloom period March 21 to

April 6, 2005

Buds Length 0.8 to 0.9 cm; elongated with rounded tip; color red-

purple 59A, tip red-purple 63B; bardy

Flower shape Rosaceous

Fragrance Fragrant, not sweet

Flower size Diameter 3.6 to 3.9 cm

Calyx color (open flower before falling of petals) Orange

Petals Quantity 5; overlapping; large, length 1.5 to 1.6 cm, width

1.4 to 1.5 cm; margins ruffled; petal texture smooth; color

upper surface red-purple 62D, lower surface red-purple

61D

Number of pistils Always one

20 Position of stigma compared to anthers Below

Stamen length compared to petals Shorter

Anthers Size 0.05 cm; color greyed-red 180A; pollen present, yellow 1A

Pubescence of ovary

Absent

Stamen

Quantity 36; length 1.0 to 1.2 cm; color red-purple 62D

Filament

Size 0.9 to 1.1 cm

Pistil

Size 1.0 to 1.2 cm; color yellow 1A

5 Sepals

Length 0.5 to 0.6 cm; width 0.3 to 0.4; color red-purple

59A

Fertility

Self-fertile

Leaves

Time of leaf bud burst

Medium

10

Size

Medium, length 13.0 cm, width 4.0 cm

Ratio length/width

Medium

Profile

Flat

Curvature of tip

Recurved downward

Angle at base

Nearly right angle

15

Angle at top

Medium

Anthocyanin coloration

Absent

Color

Yellow-green 146A with yellow-green 146D spots

Petiole

Length

Medium, 1.5 cm

20

Nectaries

Present

Shape of nectaries

Kidney-shaped

Number of nectaries

Normally two

Fruit

Size

Small, diameter 7.0 cm; height 4.0 cm

Shape in profile view

Broad oblate

Shape of tip

Bowl shaped depressed

5 Sy

Symmetry when cut along suture

Symmetric

Suture

Marked

Depth of petiole cavity

1.5 cm

Width of petiole cavity

2.5 cm

Color of skin

Ground color orange-red 34B; over color red-purple 59A

10

Extension of anthocyanin coloration of skin Very large

Pubescence

Absent

Lenticels

Absent

Thickness of skin

Medium

Adherence of skin

Medium

15

Firmness of flesh

Very firm

Anthocyanin coloration directly under skin Absent

Anthocyanin coloration around the stone

Present

Texture of the flesh

Not fibrous, fine, melting

Sugar content of flesh

High, Brix 13.5

20

Color of flesh

Yellow 16C; color near seed yellow N30A

Flavor

Sub-acid, skin slightly tart

Stone

Size compared to fruit

Small, diameter 2.5 cm

Shape

Flat; ridged; pitted

Color

Red-purple 59B

Likelihood of stone to split Absent or very weak

5

Adherence to flesh

Yes

Degree of adherence to flesh Medium

Maturity

Bearing

Annual

Time of maturity

Early (August 4, 2004 at Parker, Washington)

10 Duration Multiple pickings

Preharvest drop

Absent or minimal

Time of falling of leaves

Medium

Resistance to pests and diseases

None noted